



# EXPLOSIVES MATRIX

EXPLOSIVES AND NITROAROMATICS IN SOIL/SOLIDS AND WATER

## EXPLOSIVES AND NITROAROMATICS IN SOIL/SOLIDS

ANALYTE	METHOD	DL (MG/KG)	LOQ (MG/KG)	METHOD	DL (MG/KG)	LOQ (MG/KG)	METHOD	DL (MG/KG)	LOQ (MG/KG)
1,3,5-Trinitrobenzene	8330 HPLC	0.0876	0.50	8095 GC-ECD	0.0042	0.016	8270 GC/MS	0.0056	0.20
1,3-Dinitrobenzene	8330 HPLC	0.0515	0.50	8095 GC-ECD	0.0038	0.016	8270 GC/MS	0.033	0.20
2,4,6-Trinitrotoluene	8330 HPLC	0.0631	0.50	8095 GC-ECD	0.0033	0.016	8270 GC/MS	0.0031	0.20
2,4-Dinitrotoluene	8330 HPLC	0.0784	0.50	8095 GC-ECD	0.0024	0.016	8270 GC/MS	0.0063	0.20
2,6-Dinitrotoluene	8330 HPLC	0.0864	0.50	8095 GC-ECD	0.0028	0.016	8270 GC/MS	0.0045	0.20
2-Amino-4,6-Dinitrotoluene	8330 HPLC	0.0638	0.50	8095 GC-ECD	0.0047	0.016	8270 GC/MS	0.0037	0.20
2-Nitrotoluene	8330 HPLC	0.0915	0.50	8095 GC-ECD	0.0033	0.016	8270 GC/MS	0.0042	0.20
3-Nitrotoluene	8330 HPLC	0.113	0.50	8095 GC-ECD	0.0040	0.016	8270 GC/MS	0.0052	0.20
4-Amino-2,6-dinitrotoluene	8330 HPLC	0.0573	0.50	8095 GC-ECD	0.0036	0.016	8270 GC/MS	0.0027	0.20
4-Nitrotoluene	8330 HPLC	0.138	0.50	8095 GC-ECD	0.0051	0.016	8270 GC/MS	0.0055	0.20
HMX	8330 HPLC	0.0779	0.50	8095 GC-ECD	0.0045	0.016	8270 GC/MS	0.01	0.20
Nitrobenzene	8330 HPLC	0.0862	0.50	8095 GC-ECD	0.0036	0.016			
Nitroglycerine	8330 HPLC	0.154	2.0	8095 GC-ECD	0.0021	0.016			
PETN	8330 HPLC	0.212	0.50	8095 GC-ECD	0.0034	0.016			
RDX	8330 HPLC	0.109	0.50	8095 GC-ECD	0.0047	0.016			
Tetryl	8330 HPLC	0.0876	0.50	8095 GC-ECD	0.0063	0.016			
Nitroguanidine	8330 HPLC	0.903	8.0						
3,4-Dinitrotoluene				8095 GC-ECD	0.0033	0.016			
3,5-Dinitroaniline				8095 GC-ECD	0.0043	0.016			
1,2-Dimethyl-3,4-Dinitrobenzene							8270 GC/MS	0.0053	0.20
1,2-Dimethyl-3,5-Dinitrobenzene							8270 GC/MS	0.0038	0.20
1,2-Dimethyl-3,6-Dinitrobenzene							8270 GC/MS	0.0058	0.20
1,2-Dimethyl-4,5-Dinitrobenzene							8270 GC/MS	0.0042	0.20
1,3-Dimethyl-2,4-Dinitrobenzene							8270 GC/MS	0.0051	0.20
1,3-Dimethyl-2,5-Dinitrobenzene							8270 GC/MS	0.0042	0.20
1,4-Dimethyl-2,3-Dinitrobenzene							8270 GC/MS	0.0062	0.20
1,4-Dimethyl-2,5-Dinitrobenzene							8270 GC/MS	0.0035	0.20
1,4-Dimethyl-2,6-Dinitrobenzene							8270 GC/MS	0.0052	0.20
1,5-Dimethyl-2,3-Dinitrobenzene							8270 GC/MS	0.0042	0.20

CONT. ON NEXT PAGE

ANALYTE	METHOD	DL (MG/KG)	LOQ (MG/KG)	METHOD	DL (MG/KG)	LOQ (MG/KG)	METHOD	DL (MG/KG)	LOQ (MG/KG)
1,5-Dimethyl-2,4-Dinitrobenzene							8270 GC/MS	0.0032	0.20
2,3-Dinitrotoluene							8270 GC/MS	0.0072	0.20
2,5-Dinitrotoluene							8270 GC/MS	0.0067	0.20
3,4-Dinitrotoluene							8270 GC/MS	0.0044	0.20
3,5-Dinitroaniline							8270 GC/MS	0.0025	0.20
3,5-Dinitrotoluene							8270 GC/MS	0.0047	0.20
1,3,5-Trinitro-2,4-dimethylbenzene							8270 GC/MS	0.0027	0.20
Guanidine Nitrate	9056 IC	2.15	5						
Nitrocellulose	353.2M	0.143	0.4						

## EXPLOSIVES AND NITROAROMATICS IN WATER

ANALYTE	METHOD	DL (MG/KG)	LOQ (MG/KG)	METHOD	DL (MG/KG)	LOQ (MG/KG)
1,3,5-TRINITROBENZENE	8330 HPLC	0.0979	0.5	8095 GC-ECD	0.0068	0.025
1,3-DINITROBENZENE	8330 HPLC	0.177	0.5	8095 GC-ECD	0.0086	0.025
2,4,6-TRINITROTOLUENE	8330 HPLC	0.195	0.5	8095 GC-ECD	0.0068	0.025
2,4-DINITROTOLUENE	8330 HPLC	0.142	2	8095 GC-ECD	0.0037	0.025
2,6-DINITROTOLUENE	8330 HPLC	0.155	0.5	8095 GC-ECD	0.002	0.025
2-AMINO-4,6-DINITROTOLUENE	8330 HPLC	0.129	0.5	8095 GC-ECD	0.011	0.025
2-NITROTOLUENE	8330 HPLC	0.14	0.5	8095 GC-ECD	0.0075	0.025
3-NITROTOLUENE	8330 HPLC	0.147	0.5	8095 GC-ECD	0.014	0.025
4-AMINO-2,6-DINITROTOLUENE	8330 HPLC	0.14	0.5	8095 GC-ECD	0.011	0.025
4-NITROTOLUENE (4-NT)	8330 HPLC	0.125	2	8095 GC-ECD	0.0051	0.025
HMX	8330 HPLC	0.0766	2	8095 GC-ECD	0.016	0.025
NITROBENZENE	8330 HPLC	0.17	0.5	8095 GC-ECD	0.014	0.025
NITROGLYCERINE	8330 HPLC	0.141	0.5	8095 GC-ECD	0.0069	0.025
PETN	8330 HPLC	0.153	0.5	8095 GC-ECD	0.01	0.025
RDX	8330 HPLC	0.165	2	8095 GC-ECD	0.0086	0.025
Tetryl	8330 HPLC	0.137	0.5	8095 GC-ECD	0.021	0.025
NITROGUANIDINE	8330 HPLC	28.1	1000			
3,4-Dinitrotoluene				8095 GC-ECD	0.0065	0.025
3,5-Dinitroaniline				8095 GC-ECD	0.0093	0.025
Guanidine Nitrate	9056 IC	98	500			
Nitrocellulose	353.2M	38	110			